

Abstract

A blower type chemical diffusing apparatus is disclosed that is small in thickness, simple in structure and reduced in cost structurally to allow the chemical and battery to be exchanged readily and to facilitate electrically connecting battery to the motor in the blower. The apparatus casing comprises a first and a second side casing counterpart hinged together to allow its opening and closure, a blower with a motor and fan mounted in the first casing body, a chemical cartridge disposed between the blower and the second casing body and containing a chemical impregnated body that comprises a carrier in the form of a sheet impregnated with chemical. Also provided in the first casing body is a battery accommodating recess in which dry cells may removably be accepted to drive the motor and thereby to rotate the fan. Air is thus forced to flow through the chemical cartridge.

A chemical cartridge is also provided that is thinned, capable of sustaining its given shape, free from contaminating the hand and not wasting chemical. It uses a chemical impregnated body in the form of an air permeable and liquid absorptive sheet impregnated with chemical, which is loaded in a receptacle having a base and a cover member adapted to hold the sheet body between them. The retainer receptacle has a central, a peripheral and intermediate support sections formed to provide recesses between them and spaced between them and the lower face of the chemical impregnated body while the cover member has a central, peripheral and intermediate hold sections formed with airflow holes to allow air to flow into those spaces, thereby permitting those portions of impregnated chemical which are present between the hold and support sections to be entrained in air passing through the spaces and emanating into the atmosphere.

A chemical impregnated body having a honeycomb structure is also provided to ease the user to refill the cartridge used out. An air permeable and liquid absorptive sheet body is disposed adjacent to a honeycomb body and in intimate contact with one of its open side faces and the bodies are impregnated with chemical. When the cartridge is depleted of its chemical, liquid chemical is supplied into the sheet body and allowed to permeate it over its entire area and then

the honeycomb body over its entire area.